

(12) **United States Patent**
Ho

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(54) **IMPACT DEVICE OF PNEUMATIC TOOL**

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See application file for complete search history.

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(57)

ABSTRACT

An impact device includes a transmission shaft, an impact cylinder, two first impact pins and a first ring. The transmission shaft has an impacted section disposed in the impact cylinder, an extending section extending along an axis, a first protrusion extending toward a first radial direction, and two first concave surfaces located at the first protrusion. The impact cylinder has two elongated protrusions and two first radial holes separated by the elongated protrusions. The first impact pins are received in the first radial holes in parallel to the axis and abutable against the first concave surfaces. The first ring is sleeved onto the impact cylinder and the first impact pins and has a first narrow groove in which one elongated protrusion is located, and a first wide groove in which the other elongated protrusion is movably located. The impact device has sufficient torque output and long lifetime.

5 Claims, 12 Drawing Sheets

